Ruijie RG-S6150-X Series Switches

S6150-X_RGOS 12.6(2)B1302

Release Notes

Document Version: V1.0

Date: 2022.07.25

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Preface

Intended Audience

This document is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Technical Support

- Ruijie Networks Website: https://www.ruijienetworks.com/
- Technical Support Website: https://ruijienetworks.com/support
- Case Portal: https://caseportal.ruijienetworks.com
- Community: https://community.ruijienetworks.com
- Technical Support Email: service_rj@ruijienetworks.com
- Live Chat: https://www.ruijienetworks.com/rita

Conventions

1. Conventions

Convention	Description
Bold font	Commands, command options, and keywords are in **bold** font.
Italic font	Arguments for which you supply values are in *italic* font.
[ ]	Elements in square brackets are optional.
{ x | y | z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x | y | z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
&<1-n>	The argument before the sign (&) can be input for consecutive 1- n times.
//	Double slashes at the beginning of a line of code indicate a comment line.

2. Signs

The signs used in this document are described as follows:

Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

Specification

An alert that contains a description of product or version support.

1 Version Information

1.1 Basic Information

Version Number	S6150-X_RGOS 12.6(2)B1302, Release(09192208)
Applicable Products	RG-S6150-24VS8CQ-X RG-S6150-48VS8CQ-X
Category	Pilot Release
Customers	Common
Release Date	2022-07-25
Baseline Version	N/A
Reason for Release	Support S6150-X series new products.

Use the **show version detail** command to check the version number.

```
Ruijie#show version detail
System description     : Ruijie Full 25G Routing Switch(S6150-48VS8CQ-X) By
Ruijie Networks
System start time      : 2022-07-25 01:41:09
System uptime          : 0:00:12:27
System hardware version : 1.00
System software version : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
System patch number    : NA
System software number  : M08385007222022
System serial number   : G1RW21P000551
System boot version    : 1.4.42(Master) 1.4.42(Slave)
System rboot version   : 1.1.38
System core version    : 4.19.1
Module information:
  Slot 1/0 : S6150-48VS8CQ-X
    System uptime      : 0:00:12:17
    Hardware version   : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
    Rboot version      : 1.1.38
    Software version   : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number    : M08385007222022
    Serial number      : G1RW21P000551
  Slot 2/0 : S6150-48VS8CQ-X
    System uptime      : 0:00:12:27
    Hardware version   : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
```

```
  Rboot version      : 1.1.38
  Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
  Software number     : M08385007222022
  Serial number      : 1234942570065
Slot 3/0 : S6150-24VS8CQ-X
  System uptime      : 0:00:12:25
  Hardware version    : 1.00
  Boot version       : 1.4.42(Master) 1.4.42(Slave)
  Rboot version      : 1.1.38
  Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
  Software number     : M08385007222022
  Serial number      : 1234942570074
Slot 4/0 : S6150-24VS8CQ-X
  System uptime      : 0:00:12:27
  Hardware version    : 1.00
  Boot version       : 1.4.42(Master) 1.4.42(Slave)
  Rboot version      : 1.1.38
  Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
  Software number     : M08385007222022
  Serial number      : 1234942570074
```

2 Release Record

Note

After the version was released, the upgrade file may be released (identified by ID) because bugs were found and resolved.

Release Date	Upgrade File	Description
2022-07-25	S6150-X_RGOS12.6(2)B1302_09192208_install.bin	Pilot release of RG-S6150-X series product main program

3 Hardware Support

Note

The hardware version number is rounded to the first decimal place. The numeral in the second decimal place does not change the supporting release.

Hardware Model	Version Number	Description
RG-S6150-24VS8CQ-X	1.x	Chassis
RG-S6150-48VS8CQ-X	1.x	Chassis
RG-PA550I II-F	1.x	Power Supply Module

Note

For details, see *Ruijie RG-S6150-X Series Switches Hardware Installation and Reference Guide*.

4 Resolved Issues

N/A

5 Remaining Issues

N/A

6 Version Change

Version	Baseline	Description
S6150-X_RGOS12.6(2)B1302_09192208_install.bin	N/A	Pilot release of RG-S6150-X series product main program

6.1 Hardware Support Change

New hardware support

Hardware Model	Version Number	Description
RG-S6150-24VS8CQ-X	V1.xx	Chassis
RG-S6150-48VS8CQ-X	V1.xx	Chassis

6.2 Feature Support Change

New specifications support

Product	Feature			
	Access control	Loop detection	SDN virtualization	SC(supporting IPv6)
S6150-X series	√ (Gateway mode)	√	√	√

7 Related Documentation

Note

You can obtain the related documents at http://www.ruijienetworks.com/.

- Ruijie RG-S6150-X Series Switches Release Notes, RGOS 12.6(2)B1302
  This manual introduces RGOS 12.6(2)B1302 version, including: version information, hardware support, feature support, remaining issues, version change record, and upgrade instructions.
- Ruijie RG-S6150-X Series Switches RGOS Configuration Guide, Release RGOS 12.6(2)B1302
  This manual describes various network protocols and their implementation principles supported by RGOS 12.6(2)B1302 with detailed configuration examples.
- Ruijie RG-S6150-X Series Switches Command Reference, Release RGOS 12.6(2)B1302
  This manual describes all configuration commands supported by RGOS 12.6(2)B1302 version, including the command modes, parameter descriptions and usage guidelines with specific examples.
- Ruijie RG-S6150-X Series Switches Hardware Installation and Reference Guide
  This manual describes the functional and physical features of the RG- S6150-X series switches and provides equipment installation procedures, hardware troubleshooting, technical specifications of module, as well as the specifications and usage guidelines of cables and connectors.

Note

The related documents are subject to change or update without prior notification. Please follow the official website of Ruijie Network http://www.ruijienetworks.com/.

8 Upgrade Instructions (12.x)

To upgrade or downgrade the device to this version, the following upgrade files are required.

Applicable Product	Upgrade File	
RG-S6150-24VS8CQ-X RG-S6150-48VS8CQ-X	Upgrade File	S6150-X_RGOS12.6(2)B1302_09192208_install.bin
	File Description	Installation Package
	File Size	182661510 Bytes
	MD5	cc3be9e4595882311bb539952277b800

8.1 Upgrade under the Main Program

```
Run the CLI command on the PC configured with IP address x.x.x.x (The following
bin file name is just an example.)
Ruijie# upgrade download oob_tftp://x.x.x.x/ S6150-X_RGOS12.6(2)B1302_09192208_install.bin
*May 14 10:32:20: %UPGRADE-6-INFO: Copy to /data/upgrade_rep/
*May 14 10:32:20: %UPGRADE-6-INFO: Please wait for a moment......
Press Ctrl+C to quit
!!!!!!!!!!!!!!!!!!!!!!!!!!!!...
< The terminal is locked by upgrade module >
Upgrade start
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!10%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!20%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!30%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!40%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!50%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!60%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!100%
Upgrade success ← when you see the prompt "Upgrade finish", the copy operation
is complete (The BIN file takes effect only after the device is restarted).
< The terminal is unlocked by upgrade module >
[Slot 0]
       Device type     : s57x
       Status         : success
Ruijie>
```

Restart the device after the upgrade is complete to validate the BIN file.

```
Ruijie#reload
Reload system?(Y/N)y
Ruijie#*May 14 12:51:02: %DP-3-RESET_DEV: Reset device 1 due to
SYSMON/4215/CONSOLE/reset system by reload command.
*May 14 12:51:02: %DP-3-MACHINE_RESTART: MACHINE_RESTART.
[504172.116141] %SYS-0-REBOOT: Rebooting by job: dp_mom_thread/4265
[504172.126545] reboot: Restartin
U-Boot 1.4.14-gc4283be (Mar 21 2020 - 21:56:04 +0800)
Clock Configuration:
      CPU0(A53):1200 MHz  CPU1(A53):1200 MHz
      Bus:     500  MHz  DDR:     1600 Mbps
DRAM:  1 GiB (DDR4, 16-bit, CS=2, ECC on)
Flash: SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB,
total 32 MiB
SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB, total 32
MiB
32 MiBMMC:   Only Support 3.3 voltage
sdhci@30400000: 0
Loading Environment from SPI Flash... OK
Boot:   Master
Net:   eth0: ethernet@33410000
Press Ctrl+B to enter Boot Menu, Press Ctrl+C to enter Rboot  0
14 bytes read in 2 ms (6.8 KiB/s)
33 bytes read in 2 ms (15.6 KiB/s)
6814976 bytes read in 150 ms (43.3 MiB/s)
8422045 bytes read in 184 ms (43.7 MiB/s)
36561 bytes read in 3 ms (11.6 MiB/s)
starting pid 1179, tty '': '-/etc/sysinit'
starting initrd
Switching rootfs
[    4.258085] TIPC: Activated (version 2.0.0)
[    4.258546] TIPC: Started in single node mode
log: connected to ubus

Press RETURN to get started
```

Run the "show version" command to confirm the upgrade success:

```
Ruijie#show version detail
System description      : Ruijie Full 25G Routing Switch(S6150-48VS8CQ-X) By
Ruijie Networks
System start time       : 2022-07-25 01:41:09
System uptime           : 0:00:12:27
System hardware version : 1.00
System software version : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
System patch number     : NA
```

```
System software number  : M08385007222022
System serial number    : G1RW21P000551
System boot version     : 1.4.42(Master) 1.4.42(Slave)
System rboot version    : 1.1.38
System core version     : 4.19.1
Module information:
  Slot 1/0 : S6150-48VS8CQ-X
    System uptime       : 0:00:12:17
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : G1RW21P000551
  Slot 2/0 : S6150-48VS8CQ-X
    System uptime       : 0:00:12:27
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570065
  Slot 3/0 : S6150-24VS8CQ-X
    System uptime       : 0:00:12:25
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570074
  Slot 4/0 : S6150-24VS8CQ-X
    System uptime       : 0:00:12:27
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570074
```

8.2 Upgrade with a USB Flash Disk

```
Run the "upgrade usb0:/xxx.bin" command.
Ruijie#upgrade usb0:/ S6150-X_RGOS12.6(2)B1302_09192208_install.bin
< The terminal is locked by upgrade module >
Upgrade start
!!!Running this command may take some time, please wait.
```

```
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!10%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!20%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!30%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!40%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!50%
< you can press Ctrl+C to unlock terminal >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!60%
< you can press Ctrl+C to unlock terminal >
100%
Upgrade success ← when you see the prompt "Upgrade finish", the copy operation
is complete (The BIN file takes effect only after the device is restarted).
< The terminal is unlocked by upgrade module >
[Slot 0]
       Device type     : s57x
       Status          : success
Ruijie#
Ruijie#reload
Reload system?(Y/N)y
```

During the upgrade, you can run the "show upgrade status" command to check the upgrade status.

```
Ruijie#show upgrade status
upgrade global status: UPGRADING
[Slot 0]
       Device type     : s6150-x
Status          : upgrading ← when the upgrade is complete, it will prompt
"success" here
```

Restart the device to validate the BIN file.

```
Ruijie#reload
Reload system?(Y/N)y
Ruijie#*May 14 12:51:02: %DP-3-RESET_DEV: Reset device 1 due to
SYSMON/4215/CONSOLE/reset system by reload command.
*May 14 12:51:02: %DP-3-MACHINE_RESTART: MACHINE_RESTART.
[504172.116141] %SYS-0-REBOOT: Rebooting by job: dp_mom_thread/4265
[504172.126545] reboot: Restartin
U-Boot 1.4.14-gc4283be (Mar 21 2020 - 21:56:04 +0800)
Clock Configuration:
      CPU0(A53):1200 MHz  CPU1(A53):1200 MHz
      Bus:      500  MHz  DDR:      1600 Mbps
DRAM:  1 GiB (DDR4, 16-bit, CS=2, ECC on)
```

```
Flash: SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB,
total 32 MiB
SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB, total 32
MiB
32 MiBMMC:  Only Support 3.3 voltage
sdhci@30400000: 0
Loading Environment from SPI Flash... OK
Boot:  Master
Net:  eth0: ethernet@33410000
Press Ctrl+B to enter Boot Menu, Press Ctrl+C to enter Rboot  0
14 bytes read in 2 ms (6.8 KiB/s)
33 bytes read in 2 ms (15.6 KiB/s)
6814976 bytes read in 150 ms (43.3 MiB/s)
8422045 bytes read in 184 ms (43.7 MiB/s)
36561 bytes read in 3 ms (11.6 MiB/s)
starting pid 1179, tty '': '-/etc/sysinit'
starting initrd
Switching rootfs
[   4.258085] TIPC: Activated (version 2.0.0)
[   4.258546] TIPC: Started in single node mode
log: connected to ubus

Press RETURN to get started
```

Run the “show version” command to confirm the upgrade success:

```
Ruijie#show version detail
System description     : Ruijie Full 25G Routing Switch(S6150-48VS8CQ-X) By
Ruijie Networks
System start time      : 2022-07-25 01:41:09
System uptime         : 0:00:12:27
System hardware version : 1.00
System software version : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
System patch number    : NA
System software number  : M08385007222022
System serial number   : G1RW21P000551
System boot version    : 1.4.42(Master) 1.4.42(Slave)
System rboot version   : 1.1.38
System core version    : 4.19.1
Module information:
  Slot 1/0 : S6150-48VS8CQ-X
    System uptime      : 0:00:12:17
    Hardware version   : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
    Rboot version      : 1.1.38
    Software version   : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number    : M08385007222022
```

```
    Serial number      : G1RW21P000551
  Slot 2/0 : S6150-48VS8CQ-X
    System uptime      : 0:00:12:27
    Hardware version    : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
    Rboot version      : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number      : 1234942570065
  Slot 3/0 : S6150-24VS8CQ-X
    System uptime      : 0:00:12:25
    Hardware version    : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
    Rboot version      : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number      : 1234942570074
  Slot 4/0 : S6150-24VS8CQ-X
    System uptime      : 0:00:12:27
    Hardware version    : 1.00
    Boot version       : 1.4.42(Master) 1.4.42(Slave)
    Rboot version      : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number      : 1234942570074
```

8.3 Upgrade under Uboot

```
Run the "@@@@b" command
Ruijie#@@@@b
[156375.133279] IRQ RESPONSES
U-Boot 1.4.14-gc4283be (Mar 21 2020 - 21:56:04 +0800)
Clock Configuration:
      CPU0(A53):1200 MHz  CPU1(A53):1200 MHz
      Bus:     500  MHz  DDR:     1600 Mbps
DRAM:  1 GiB (DDR4, 16-bit, CS=2, ECC on)
Flash: SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB,
total 32 MiB
SF: Detected mx25l25635f with page size 256 Bytes, erase size 64 KiB, total 32
MiB
32 MiBMMC:   Only Support 3.3 voltage
sdhci@30400000: 0
Loading Environment from SPI Flash... OK
Boot:   Master
Net:   eth0: ethernet@33410000
Press Ctrl+B to enter Boot Menu, Press Ctrl+C to enter Rboot  0
```

During the reboot, press the combination of ctrl and c keys immediately when you see the following prompt to enter the Rboot interface.

```
Press Ctrl+B to enter Boot Menu, Press Ctrl+C to enter Rboot  0
Rboot                        Version: 1.1.15
-----------------------------------------------
   Mount rootfs1 ...
   Mount rootfs2 ...
   Mount data ...
   Mount upgrade ...
   Mount upgrade_bak ...
====== Rboot Menu (Ctrl+Z to upper level) ======
   TOP menu items.
***********************************************
   0. Tftp utilities.
   1. X/Y/ZModem utilities.
   2. Run main.
   3. SetMac utilities.
   4. Scattered utilities.
***********************************************
Press a key to run the command:
```

Click the red prompt under the Rboot menu to enter the address configuration menu.

```
====== Rboot Menu(Ctrl+Z to upper level) ======
   TOP menu items.
***********************************************
   0. Tftp utilities.
   1. XModem utilities.
   2. Run main.
   3. SetMac utilities.
   4. Scattered utilities.
***********************************************
Press a key to run the command:
====== Rboot Menu(Ctrl+Z to upper level) ======
  Tftp utilities.
***********************************************
  0. Upgrade uboot program.
  1. Upgrade rboot program.
  2. Upgrade main program.
  3. Burn the total FlashROM by this downloaded file.
***********************************************
Press a key to run the command:
enter the Local IP:[]:
```

Under the address configuration menu, enter the switch address, the execution PC address, and the BIN file.

```
************************************************
Press a key to run the command:
enter the Local IP:[]:192.12.1.1    ← This address is the switch address, configured in the same network segment as the execution PC.
enter the Remote IP:[]:192.12.1.2 ← This address is the PC address.
enter the Filename:[]: S6150-X_RGOS12.6(2)B1302_09192208_install.bin ← This file name serves as an example.
```

The upgrade operation starts after the above address and file name were set.

```
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
Dload  Upload   Total   Spent    Left  Speed
147M  100  147M    0     0  1902k      0  0:01:19  0:01:19 --:--:-- 1968k
100  147M  100  147M    0     0  1902k      0  0:01:19  0:01:19 --:--:-- 1902k
Upgrading, keep power on and wait please ...
```

Select Y as prompted to continue the next step until it prompts "upgrade success" (the upgrade file is copied successfully).

```
Determined to upgrade? [Y/N]: Y
Mount File System ...
Copy file to Flash ...
Upgrade Rootfs Success.
Upgrade Success
```

After the upgrade file is copied successfully, it automatically returns to the Rboot menu interface. Press Ctrl+Z to exit the menu item for reboot. (You can also directly power off and restart the device.)

```
====== Rboot Menu(Ctrl+Z to upper level) ======
Tftp utilities.
************************************************
0. Upgrade uboot program.
1. Upgrade rboot program.
2. Upgrade main program.
3. Burn the total FlashROM by this downloaded file.
************************************************
Press a key to run the command:
====== Rboot Menu(Ctrl+Z to upper level) ======
TOP menu items.
************************************************
0. Tftp utilities.
1. XModem utilities.
2. Run main.   ← Select Run main, and the switch will automatically restart.
3. SetMac utilities.
4. Scattered utilities.
```

```
************************************************
```

Wait for the device to restart.

```
*May 14 12:51:02: %DP-3-MACHINE_RESTART: MACHINE_RESTART.
[504172.116141] %SYS-0-REBOOT: Rebooting by job: dp_mom_thread/4265
[504172.126545] reboot: Restartin
U-Boot 1.4.14-gc4283be (Mar 21 2020 - 21:56:04 +0800)
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Switching rootfs
[   4.258085] TIPC: Activated (version 2.0.0)
[   4.258546] TIPC: Started in single node mode
log: connected to ubus

Press RETURN to get started
```

Run the “show version” command to confirm the upgrade success:

```
Ruijie#show version detail
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Ruijie Networks
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System uptime          : 0:00:12:27
System hardware version : 1.00
System software version : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
System patch number    : NA
System software number  : M08385007222022
```

```
System serial number    : G1RW21P000551
System boot version     : 1.4.42(Master) 1.4.42(Slave)
System rboot version    : 1.1.38
System core version     : 4.19.1
Module information:
  Slot 1/0 : S6150-48VS8CQ-X
    System uptime       : 0:00:12:17
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : G1RW21P000551
  Slot 2/0 : S6150-48VS8CQ-X
    System uptime       : 0:00:12:27
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570065
  Slot 3/0 : S6150-24VS8CQ-X
    System uptime       : 0:00:12:25
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570074
  Slot 4/0 : S6150-24VS8CQ-X
    System uptime       : 0:00:12:27
    Hardware version    : 1.00
    Boot version        : 1.4.42(Master) 1.4.42(Slave)
    Rboot version       : 1.1.38
    Software version    : S6150-X_RGOS 12.6(2)B1302, Release(09192208)
    Software number     : M08385007222022
    Serial number       : 1234942570074
```

8.4 Upgrade on the Web System

Click **O&M** (运维) > **Device Upgrade** (设备升级) and go to the upgrade page.

Click **Select an upgrade file** (点击选择升级包) on the page. Select the local bin file and click **Start** (开始升级) to upgrade the firmware.

Please wait for about 15 minutes (the upgrade time varies with different models.) until the upgrade is completed and refresh the page. A new page is displayed.